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<b>Substitute for form 1449A/B/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/706877-Conf. #5816
				Filing Date	November 12, 2003
				First Named Inventor	FENTEANY
				Art Unit	N/A
				Examiner Name	Not Yet Assigned
Sheet	1	of	6	Attorney Docket Number	0042697.00137US8

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
[initials]	AA*	US-4,962,204	10-09-1990	Wambach	
	AB*	US-5,340,736	08-23-1994	Goldberg	
	AC*	US-5,453,502	09-26-1995	Aikins et al.	
	AD*	US-5,756,764	05-26-1998	Fenteany et al.	
	AE*	US-5,780,454	07-14-1998	Adams et al.	
	AF*	US-6,147,223	11-14-2000	Fenteany et al.	
	AG*	US-6,214,862	04-10-2001	Fenteany et al.	
	AH*	US-6,335,358	01-01-2002	Fenteany et al.	
	AI*	US-6,458,825	10-01-2002	Fenteany et al.	
	AJ*	US-6,645,999	11-11-2003	Schreiber et al.	
	AK*	US-6,660,268	12-09-2003	Palombella et al.	
	AL*	US-6,838,477-A1	06-26-2003	Schreiber et al.	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code <sup>3</sup> -Number-Kind Code <sup>2</sup> (if known)			
[initials]	BA	JP 60 135460	07-18-1985	Kawaguchi et al.	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \* CITE NO.: Those application(s) which are marked with an single asterisk (\*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
[initials]	CA	AIKLAY, I. et al., "In vivo Stimulation of IκB Phosphorylation is not Sufficient to Activate NF-κB", <i>Mol. Cell. Biol.</i> , Vol. 15, No. 3, pp. 1294-1301, March 1995	
[initials]	CB	ARNOLD et al., "Protochemical Reactions. Part III. Thermal Generation of Phoenols and their Derivatives from Substituted 1,2-Dihydrobenzocyclobutenes", <i>J. Chem. Soc.</i> , pp. 409-415, 1974	
[initials]	CC	BALDWIN, J. E., "Rules for Ring Closure", <i>J. Chem. Soc. Chem. Commun.</i> , pp. 734-736, 1976	
[initials]	CD	BEG AA et al., "Tumor Necrosis Factor and Interleukin-1 Lead to Phosphorylation and Loss of IκBα: A Mechanism for NF-κB activation", <i>Mol. Cell. Biol.</i> , Vol. 13, No. 6, pp. 3301-3310, June 1993	
[initials]	CE	BELEN'KII, W., "Methods of Desulfurization and Their Use in Organic Synthesis", <i>Chemistry of Organosulfur Compounds</i> , pp. 193-228, 1990	
[initials]	CF	BROWN et al., (CA 99:105027), 1983 (Abstract Only)	
[initials]	CG	CAINE et al., "A New Synthesis of 3-n-Butyl-4-bromo-5(Z)-(bromomethylidene)-2-(5H)-furanone, a Naturally Occurring Fimbrilide from <i>Delisia fimbriata</i> (Bonnemaisoniaceae)", <i>J. Org. Chem.</i> , Vol. 50, pp. 2195-2198, 1985	
[initials]	CH	CAVA, M. et al., "Thionation Reactions of Lawesson's Reagents", <i>Tetrahedron Letters</i> , Vol.	
Examiner Signature	[Signature]		Date Considered 12/4/06

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		41, No. 22, pp. 5061-5087, 1985	
CR	CI	CHALLIS, N. et al., "Chapter 13. Reactions of the Carboxamide Group", <i>The Chemistry of Amides</i> , pp. 734-754, 1970	
	CJ	CHIDA et al., "Total Synthesis of (+)-Lactacystin from D-Glucose", <i>J. Chem. Soc./Chem. Comm.</i> , pp. 793-797, 1995	
CR	CK	CHIGR et al., "An Efficient Route to Aminoanthraquinones and Derivatives via a Diels-Alder Reaction", <i>Tetrahedron Letters</i> , Vol. 28, No. 39, pp. 4529-4532, 1987	
CR	CL	CHU-PING et al., "Identification, Purification, and Characterization of a Protein Acitvator (PA28) of the 20 S Proteasome (Macropain)", <i>J. Biol. Chem.</i> , Vol. 267, No. 16, pp. 10515-10523, 25 May 1992	
CR	CM	CIECHANOVER, A., "The Ubiquitin-Proteasome Proteolytic Pathway", <i>Cell</i> , Vol. 79, No. 1, pp. 13-21, 7 October 1994	
CR	CN	COHEN, J., "AIDS Mood Upbeat - For a Change", <i>Science</i> , Vol. 267, pp. 959-960, 17 February 1995	
CR	CO	COLLINS, T., "Biology of Disease, Endothelial Nuclear Factor- $\kappa$ B and the Initiation of the Atherosclerotic Lesion", <i>Lab. Invest.</i> , Vol. 68, No. 5, pp. 499-508, 1993	
	CP	COREY et al., "Studies on the Total Synthesis of Lactacystin, an Improved Aldol Coupling ...", <i>Tetrahedron Letters</i> , Vol. 34, No. 44, pp. 6977-6980, 1993	
	CQ	COREY et al., "An Enantioselective Synthesis of (6R)-Lactacystin", <i>Tetrahedron Letters</i> , Vol. 34, pp. 6969-6972, 1993	
	CR	COREY et al., "Synthesis of (6R,7S)-Lactacystin and 6-Deoxylactacystin from a Common Intermediate", <i>Tetrahedron Letters</i> , Vol. 34, pp. 6973-6976, 1993	
	CS	COREY et al., "Total Synthesis of Lactacystin", <i>J. Am. Chem. Soc.</i> , Vol. 114, pp. 10677-10678, 1992	
	CT	COREY et al., "Total Synthesis of Lactacystin: An Enantioselective Synthesis of (6R)-Lactacystin: Total Synthesis of (+)-Lactacystin...", <i>Chemtracts-Organic Chemistry</i> , pp. 266-272, 1994	
CR	CU	COREY et al., "Protection of Hydroxyl Groups as <i>tert</i> -Butyldimethylsilyl Derivatives", <i>J. Am. Chem. Soc.</i> , Vol. 94, No. 17, pp. 6190-6191, 23 August 1972	
CR	CV	CURRAN, D. P., "Radical Cyclizations and Sequential Radical Reactions", <i>Comprehensive Organic Synthesis</i> , Vol. 4, pp. 779-831, 1991	
CR	CW	CURRAN, D. P. et al., "Atom-Transfer Cyclization. A Novel Isomerization of Hex-5-ynyl Iodides to (Iodomethylene) cyclopentanes", <i>J. Am. Chem. Soc.</i> , Vol. 108, pp. 2489-2490, 1986	
CR	CX	CURRAN, D. P. et al., "Atom Transfer Cyclization Reactions of $\alpha$ -Iodo Esters, Ketones, and Malonates: Examples of Selective 5-Exo, 6-Endo, 6-Exo, and 7-Endo Ring Closures", <i>J. Org. Chem.</i> , Vol. 54, pp. 3140-3157, 1989	
CR	CY	CURRAN, D. P. et al., "Atom Transfer Cyclization Reactions of $\alpha$ -Iodo Carbonyls", <i>Tetrahedron Letters</i> , Vol. 28, No. 22, pp. 2477-2480, 1987	
	CZ	DAVIS, et al., "Synthesis of $\alpha$ -Hydroxy Carbonyl Compounds (Acylols): Direct Oxidation of Enolates Using 2-Sulfonyloxaziridines", <i>J. Org. Chem.</i> , Vol. 49, pp. 3241-3243, 1984	
CR	CA1	DENER et al., "An Effective Chirospecific Synthesis of (+)-Pilocarpine from L-Aspartic Acid", <i>J. Org. Chem.</i> , Vol. 58, pp. 1159-1166, 1993	
	CB1	DEROANNE et al., (CA 110:13209), 1975 (Abstract Only)	
CR	CC1	DIDONATO J.A. et al., "Phosphorylation of I $\kappa$ B $\alpha$ Precedes but is not Sufficient for its Dissociation from NF- $\kappa$ B", <i>Mol. Cell. Biol.</i> , Vol. 15, No. 3, pp. 1302-1311, March 1995	
	CD1	DJABALLAH et al., "Use of Serine-Protease Inhibitors as Probes for the Different Proteolytic Activities of the Rat Liver Multicatalytic Proteinase Complex", <i>Europ. J. Biochem.</i> , Vol. 209, pp. 629-634, 1992	
	CE1	EL-ACHQAR et al., (CA 110:193343), 1989 (Abstract Only)	

Examiner Signature	<i>Chad Schwarz</i>	Date Considered	<i>12</i>
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Sheet	3	of	6

CF1	EVANS, D. A. et al., Asymmetric Alkylation Reactions of Chiral Imide Enolates. A Practical Approach to the Enantioselective Synthesis of $\alpha$ -Substituted Carboxylic Acid Derivatives", <i>J. Amer. Chem. Soc.</i> , Vol. 104, pp. 1737-1739, 1982
CG1	EVANS, D. A. et al., "Enantioselective Aldol Condensations, 2. Erythro-Selective Chiral Aldol Condensations via Boron Enolates", <i>J. Amer. Chem. Soc.</i> , Vol. 103, pp. 2127-2129, 1981
CH1	EVANS et al., "Electrophilic Azide Transfer to Chiral Enolates. A General Approach to the Asymmetric Synthesis of $\alpha$ -Amino Acids", <i>J. Am. Chem.</i> , Vol. 109, pp. 6881-6883, 1987
CI1	FAN et al., "Generation of p50 subunit of NF- $\kappa$ B by processing of p105 through an ATP-dependent pathway", <i>Letters to Nature</i> , Vol. 354, pp. 395-398, 5 December 1991
CJ1	FEIL et al., (CA 80:71067), 1974 (Abstract Only)
CK1	FENTEANY et al., "A $\beta$ -Lactone related to Lactacystin Induces Neurite Outgrowth in a Neuroblastoma Cell Line and Inhibits Cell ...", <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 91, pp. 3358-3362, 1994
CL1	FENTEANY et al., "Inhibition of Proteasome Activities and Subunit-Specific Amino-Terminal Threonine Modification by Lactacystin", <i>Science</i> , Vol. 268, pp. 726-731, 1995
CM1	FIGUEIREDO-PEREIRA et al., "A New Inhibitor of the Chymotrypsin-Like Activity of the Multicatalytic Proteinase Complex (20S Proteasome)...", <i>J. of Neurochemistry</i> , Vol. 63, No. 4, pp. 1578-1581, 1994
CN1	FIGUEIREDO-PEREIRA et al., "Comparison of the Effect of Calpain Inhibitors on Two Extralysosomal Proteinases: The Multicatalytic Proteinase Complex and m-Calpain", <i>J. of Neurochemistry</i> , Vol. 62, No. 5, pp. 1989-1994, 1994
CO1	FRANCESE, C. et al., "Synthesis of Trifluoromethyl-substituted Methanols: a Barbier Procedure under Pressure", <i>J. Chem. Soc., Chem. Commun.</i> , pp. 642-643, 1987
CP1	GALLINA et al., (CA 71:113238), 1969 (Abstract Only)
CQ1	GALLINA et al., (CA 76:139654), 1972 (Abstract Only)
GR1	GALLINA et al., (CA 76:4136), 1972 (Abstract Only)
CS1	GANOTH et al., "A Multicomponent System that Degrades Proteins Conjugated to Ubiquitin", <i>J. Biol. Chem.</i> , Vol. 263, No. 25, pp. 12412-12419, 1988
CT1	GASSMAN et al., "Sulfenylation of Amides", <i>J. Org. Chem.</i> , Vol. 42, No. 20, pp. 3236-3240, 1977
CU1	GAYLORD, J., <i>Reduction with Complex Metal Hydrides</i> , pp. 544-636, 1956
CV1	GRIFFITH et al., (CA 85:430000), 1976 (Abstract Only)
CW1	GRIFFITH et al., (CA 87:163362), 1977 (Abstract Only)
CX1	HAEUSLER (CA 95:151123), 1981 (Abstract Only)
CY1	HAMADA et al., "Stereoselective Total Synthesis of AI-77-B, a Gastroprotective Substance from <i>Bacillus Pumilus</i> ", <i>J. American Chemical Society</i> , Vol. 111, No. 4, pp. 1524-1525, 1989
CZ1	HANSSON, C. et al., "The Preparation of Enamines by Addition of Grignard Reagents to <i>N,N</i> -Dialkylformamides", <i>J. Org. Chem.</i> , Vol. 38, No. 17, pp. 3074-3076, 1973
CA2	HANESSION, S. et al., "Heteroatom-Assisted Substitution of Acyclic Secondary Tosylates with Lithium Dialkylcuprates: An Expedient Route to Stereochemically Defined Deoxypropionate and Related Biosynthetic Subunits", <i>J. Org. Chem.</i> , Vol. 54, No. 25, pp. 5831-5833, 8 December 1989
CB2	HANESSION et al., "Synthesis of a Conformationally Constrained Analog of <i>N</i> -Acetylmuramyl Dipeptide (MDP)", <i>Synlett</i> , Vol. 10., p. 222-224, 1991
CC2	HARUTA et al., "A Rapamycin-Sensitive Pathway Down-Regulates Insulin Signaling via Phosphorylation and Proteasomal Degradation of Insulin Receptor Substrate-1", <i>Molecular Endocrinology</i> , Vol. 14, No. 6, pp. 783-794
GD2	HATANAKA (CA 71:56785), 1969 (Abstract Only)
CE2	HATANAKA (CA 86:40228), 1977 (Abstract Only)

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Sheet	4	of	6

CF2	HECK, R. F., "Vinyl Substitutions with Organopalladium Intermediates", <i>Comprehensive Organic Synthesis</i> , Vol. 4, pp. 833-863, 1991
CG2	HERDEIS et al., "Chiral Pool Synthesis of Trans-(2S, 3S)-3-Hydroxyproline and Castanodiol from S-Pyrogutamic Acid", <i>Tetrahedron: Asymmetry</i> , Vol 5, No. 1, pp. 119-128, 1994
CH2	HOERRMAN (CA 105:120768) 1986 (Abstract Only)
CI2	HOUGH et al., "Purification of Two High Molecular Weight Proteases from Rabbit Reticulocyte Lysate", <i>J. Biol. Chem.</i> , Vol. 262, No. 17, pp. 8303-8313, 15 June 1987
CJ2	ITO et al. (CA 68:40037), 1968 (Abstract Only)
CK2	IWASKI et al. (CA 71:61270), 1969 (Abstract Only)
CL2	JAMISON, T. F. et al., "Cobalt-Mediated Total Synthesis of (+)-Epoxydictymene", <i>J. Am. Chem. Soc.</i> , Vol. 116, pp. 5505-5506, 1994
CM2	JEFFERS et al., "Degradation of the Met Tyrosine Kinase Receptor by the Ubiquitin-Proteasome Pathway", <i>Molecular and Cellular Biology</i> , Vol. 17, No. 2, pp. 799-808, February 1997
CN2	JOHNSON, C. R., "The Utilization of Sulfoximines and Derivatives as Reagents for Organic Synthesis", <i>Acc. Chem. Res.</i> , Vol. 6, pp. 341-347, 1973
CO2	JURCZAK et al., "Highly Stereoselective Synthesis of CIS 92R, 3S)-3-Hydroxyproline", <i>Tetrahedron Letters</i> , Vol. 34, No. 44, pp. 7107-7110, 1993
CP2	KALYANAM et al., "Enantiomeric Conformations of 5-Acyl-2-Oxo-2H-1, 3, 4, 5-Tetrahydrobenzodiazepines", <i>Tetrahedron Letters</i> , Vol. 34, No. 1, pp. 119-122, 1993
CQ2	KAMETANI et al., "Studies on the Synthesis of Carbapenem Antibiotics, Stereoselective Synthesis of a Potential Intermediate for 6-Amido Carbapenem Antibiotics", <i>Heterocycles</i> , Vol. 20, No. 12, pp. 2355-2358, 1983
CR2	KAMITANI et al. (CA 72:90874), 1970 (Abstract Only)
CS2	KAMIYA (CA 71:81248), 1969 (Abstract Only)
CT2	KARA-MURZA (CA 81:163926), 1974 (Abstract Only)
CU2	KATSURA et al. (CA 117:131063), 1992 (Abstract Only)
CV2	KATZ et al. (CA 82:134374), 1975 (Abstract Only)
CW2	KAWAGUCHI et al. (CA 104:10651), 1986
EX2	KEFALIDES et al. (CA 84:119077), 1976 (Abstract Only)
CY2	KHOMUTOV et al. (CA 66:76280), 1967 (Abstract Only)
CZ2	KLAUSNER, Y. S. et al., "Coupling Reagents in Peptide Synthesis", <i>Synthesis</i> , pp. 453-463, 1972
CA3	KOGORI et al (CA 119:117095), 1993 (Abstract Only)
CB3	KOJIMA et al., "Two-Way Cleavage of Beta-Amyloid Protein Precursor by Multicatalytic Proteinase", <i>FEBS Letters</i> , Vol. 304, No. 1, pp. 57-60, June 1992
CC3	KOSUGE et al., "Lactacystin, A Novel Microbial Metabolite, induces Neuriteogenesis of Neuroblastoma Cells", <i>The Journal of Antibiotics</i> , pp. 113-116, January 1991
CD3	KUMATORI, A. et al., "Abnormally High Expression of Proteasomes in Human Leukemic Cells", <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 87, No. 18, pp. 7071-7075, September 1990
CE3	LEE et al. (CA 105:246000), 1986 (Abstract Only)
CF3	LIN Y. C. et al., "Activation of NF-Kappa B Requires Proteolysis of the Inhibitor I Kappa B-Alpha: Signal-Induced Phosphorylation of I Kappa B-Alpha Alone does not release Active NF-Kappa B", <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 92, No. 2, pp. 552-556, 1995
CG3	LUBEC et al. (CA 120:124626) 14 March 1994 (Abstract Only)
CH3	LUBELL et al., "N-(9-Phenylfluoren-9-yl)-alpha-amino Ketones and N-(9-Phenylfluoren-9-yl)-alpha-amino Aldehydes as Chiral Educts for the Synthesis of Optically Pure 4-Alkyl-3-hydroxy-2-amino Acids. Synthesis of the C-9 Amino Acid MeBmt Present in Cyclosporin", <i>J. Org. Chem.</i> , Vol. 55, pp. 3511-3522, 1990

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CI3	MARCH, "Addition to Carbon-Carbon Multiple Bonds", <i>Advanced Organic Chemistry</i> , pp. 826-877, 1992		
CJ3	MASON et al., "Proteasomes: The Changing Face of Proteolysis", <i>Chemistry &amp; Biology</i> , Vol. 1, pp. 197-199, 1994		
CK3	MIYAMOTO S. et al., "Tumor Necrosis Factor Alpha-Induced Phosphorylation of I Kappa B Alpha is a Signal for its Degradation but not Dissociation from NF- $\kappa$ B", <i>Proc. Natl. Acad. Sci USA</i> , Vol. 91, No. 26, pp. 12740-12744, December 1994		
CL3	MCMURRY, J. E. et al., "A Method for the Regiospecific Synthesis of Enol Triflates by Enolate Trapping", <i>Tetrahedron Letters</i> , Vol. 24, No. 10, pp. 979-982, 1983		
CM3	NAKAGAWA et al., "Biosynthesis of Lactacystin. Origin of the Carbons and Stereospecific NMR Assignment of the Two Diastereotopic Methyl Groups", <i>Tetrahedron Letters</i> , Vol. 35, No. 28, pp. 5009-5012, 1994		
CN3	NOVALES-LI et al. (CA 108:72570), 1988 (Abstract Only)		
CO3	NOZOE et al. (CA 112:36460), 1990 (Abstract Only)		
CP3	OMURA, S. et al., "Lactacystin, A Novel Microbial Metabolite, Induces Neuritogenesis of Neuroblastoma Cells", (Communication to the Editor), <i>The Journal of Antibiotics</i> , Vol. 44, No. 1, pp. 113-116, Jan. 1991		
CQ3	ORLOWSKI et al., "Evidence for the Presence of Five Distinct Proteolytic Components in the Pituitary Multicatalytic Proteinase Complex...", <i>Biochemistry</i> , Vol. 32, pp. 1563-1572, 1993		
CR3	<i>Pages of Calbiochem® Catalog for Clasto-Lactacystin <math>\beta</math>-Lactone (Cat. No. 426102) and Synthetic Lactacystin (Cat. No. 426100) as printed on 8 June 2003</i>		
CS3	PALOMBELLA et al., "The Ubiquitin-Proteasome Pathway is Required for Processing the NF-KB1 Precursor Protein and the Activation of NF-KB", <i>Cell</i> , Vol. 78, pp. 773-785, 1994		
CT3	PENROSE and MCBRIDE, "Proteasome-Mediated Degradation of the Papillomavirus E2-TA Protein is Regulated by Phosphorylation and Can Modulate Viral Genome Copy Number", <i>J. Virology</i> , Vol. 74, No. 13, pp. 6031-6038, July 2000		
CU3	PETASIS et al., "The Synthesis of Carbocyclic Eight-Membered Rings", <i>Tetrahedron Letters</i> , Vol. 48, No. 28, pp. 5757-5821, 1992		
CV3	PETERS, J., "Proteasomes: Protein Degradation Machines of the Cell", <i>TIBS</i> , pp. 377-382, 1994		
CW3	PHILIP et al. (CA 87:102614), 1977 (Abstract Only)		
CX3	PHILIP et al. (CA 87:68602), 1977 (Abstract Only)		
CY3	PINE et al., "Carbonyl Methylation Using a Titanium-Aluminum (Tebbe) Complex", <i>J. Org. Chem.</i> , Vol. 50, pp. 1212-1216, 1985		
CZ3	PURVIS et al. (CA 111:53899), 1989 (Abstract Only)		
CA4	RYAN et al. (CA 97:163506), 1982 (Abstract Only)		
CB4	RZEPECKI et al. (CA 116:148544), 1991 (Abstract Only)		
CC4	SAVORY et al., "Reaction of Proteasomes with Peptidylchloromethanes and Peptidyl diazomethanes", <i>J. Biochem.</i> , Vol. 296, pp. 601-605, 1993		
CD4	SEEBACH, D. et al., "107. Stereoselektive Alkylierung an C( $\alpha$ ) von Serin, Glycerinsäure, Threonin und Weinsäure über heterocyclische Enolate mit exocyclischer Doppelbindung", <i>Helv. Chim. Acta.</i> , Vol. 70, pp. 1194-1216, 1987		
CE4	SCHROCK, R. R., "Multiple Metal-Carbon Bonds. 5. The Reaction of Niobium and Tantalum Neopentylidene Complexes with the Carbonyl Function", <i>J. Amer. Chem. Soc.</i> , pp. 5399-5400, 23 April 1976		
CF4	SHEWRY et al. (CA 86:86180), 1977 (Abstract Only)		
CG4	SPERANZA et al., "Inhibition of Proteasome Activity Strongly Affects Kiwifruit Pollen Germination. Involvement of the Ubiquitin/Proteasome Pathway as Major Regulator", <i>Plant Physiology</i> , Vol. 126, pp. 1150-1161, July 2001		
CH4	STANDAERT et al., "Abstract", <i>Academic Development Program, Symposium, Merck</i>		
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	10/706877-Conf. #5816		
		Filing Date	November 12, 2003		
		First Named Inventor	FENTEANY		
		Art Unit	N/A		
		Examiner Name	Not Yet Assigned		
Sheet	6	of	6	Attorney Docket Number	0042697.00137US8

		Research Laboratories, Rahway, New Jersey, October 1993	
	CI4	STANDAERT et al., "Poster Session", Academic Development Symposium, Merck Research Laboratories, Rahway, New Jersey, October 1993	
UR	CJ4	STELIOU et al., "Tin-Assisted Sulfuration: A Highly Potent New Method for the Conversion of Carbonyl Units into Their Corresponding Thiocarbonyl Analogues", <i>J. Amer. Chem. Soc.</i> , Vol. 104, pp. 3104-3106, 1982	
UR	CK4	STILLE, J. K., "The Palladium-Catalyzed Cross-Coupling Reactions of Organotin Reagents with Organic Electrophiles", <i>Agnew Chem. Int. Ed. Engl.</i> , Vol. 25, pp. 508-524, 1986	
UR	CL4	STOTTER et al., "α-Halocarbonyl Compounds. II. A Position-Specific Preparation of α-Bromo Ketones by Bromination of Lithium Enolates. A Position-Specific Introduction of α,β-Unsaturation into Unsymmetrical Ketones", <i>J. Org. Chem.</i> , Vol. 38, No. 14, pp. 2576-2578, 1973	
	CM4	SUNAZUKA et al., "Total Synthesis of (+)-Lactacystin, the First Non-Protein Neurotrophic Factor", <i>J. Amer. Chem. Soc.</i> , Vol. 115, p. 5302, 1993	
	CN4	SUNDRAM et al., "Chemoenzymatic Synthesis of (2R, 3S)-3-Hydroxyproline from Cyclopentadiene", <i>Tetrahedron Letters</i> , Vol. 35, No. 38, pp. 6975-6976, 1994	
	CO4	THANING et al. (CA 117:7757), 1992 (Abstract Only)	
UR	CP4	THANOS et al., "NF-κB: A Lesson in Family Values", <i>Cell</i> , Vol. 80, No. 4, pp. 529-532, 24 February 1995	
	CQ4	THOTTATHIL et al., "Conversion of L-pyrogutamic Acid to 4-Alkyl-Substituted L-Prolines. The Synthesis of Trans-4-Cyclohexyl-L-Proline", <i>J. Organic Chemistry</i> , Vol 51, pp. 3140-3143, 1986	
UR	CR4	TRAENCKNER, et al., "A Proteasome Inhibitor Prevents Activation of NF-κB and Stabilizes a Newly Phosphorylated Form of IκB-α that is Still Bound to NF-κB", <i>The EMBO Journal</i> , Vol. 13, No. 22, pp. 5433-5441, 1994	
UR	CS4	TROST, B. M. et al., "Chemoselective Oxidation of Sulfides to Sulfones with Potassium Hydrogen Persulfate", <i>Tetrahedron Letters</i> , Vol. 22, No. 14, pp. 1287-1290, 1981	
	CT4	TSUBUKI et al., "Purification and Characterization of a Z-Leu-Leu-Leu-MCA Degrading Protease Expected to Regulate Neurite Formation...", <i>Biochem. &amp; Biophys. Res. Comm.</i> , Vol. 196, No. 3, pp. 1995-1201, 1993	
UR	CU4	TURNER, B., "Chapter 2: 2,3-Dichloro-5, 6-Dicyanobenzoquinone (DDQ)", <i>Synth. Reagents</i> , Chapter 2 pp. 194-224, 1977	
	CV4	UNO et al., "Total Synthesis of (+)-Lactacystin from (R)-Glutamate", <i>J. Am. Chem. Soc.</i> , Vol. 116, pp. 2139-2140, 1994	
	CW4	VAN DER WERF et al. (CA 83:174482), 1975 (Abstract Only)	
	CX4	VINITSKY et al., "Inhibition of the Chymotrypsin-like Activity of the Pituitary Multicatalytic Proteinase Complex", <i>Biochemistry</i> , Vol. 31, pp. 9421-9428, 1992	
	CY4	VINITSKY et al., "Inhibition of the Proteolytic Activity of the Multicatalytic Proteinase Complex (Proteasome) by Substrate-related Peptidyl Aldehydes", <i>J. Biol. Chem.</i> , Vol. 269, No. 47, pp. 29860-29866, 1994	
UR	CZ4	WENDER et al., "Studies on Tumor Promoters. 1. A New [5 + 2] Cycloaddition Method and its Application to the Synthesis of BC Ring Precursors of Phoboids", <i>J. Org. Chem.</i> , Vol. 56, p. 6267-6269, 26 August 1991	
UR	CA5	WENDER et al., "Preparation and Cycloadditions of a 4-Methoxy-3-Oxidopyrylium Ylid: A Reagent for the Synthesis of Highly Substituted Seven-Membered Rings and Tetrahydrofurans", <i>Tetrahedron Letters</i> , Vol. 33, No. 16, pp. 2115-2118, 1992	
	CB5	YU et al. (CA 115:189747), 1991 (Abstract Only)	
UR	CC5	ZORETIC et al., "Sulfenylation and Selenenylation of Lactams", <i>J. Org. Chem.</i> , Vol. 41, No. 22, pp. 3587-3589, 1976	

Examiner Signature	<i>Christine Fenteany</i>	Date Considered	6/4/06
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